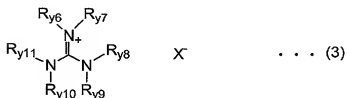


WHAT IS CLAIMED IS:

1. An electrolyte composition comprising: a molten salt represented by any of the following general formulae (1), (2) and (3); a polymer prepared by a reaction between an electrophile having at least two unsaturated bonds polarized by an electron-withdrawing group and a nucleophile having a plurality of nucleophilic groups; and a metal salt containing a Group IA metal ion or a Group IIA metal ion.



In the general formulae (1), (2) and (3),  $\text{Q}_{y1}$  represents an atomic group forming an aromatic cation having a 5- or 6-membered ring structure with the nitrogen atom,  $\text{A}_{y1}$  represents a nitrogen atom or a phosphorus atom,  $\text{R}_{y1}$  to  $\text{R}_{y11}$  independently represent a substituted or unsubstituted alkyl group or a substituted or unsubstituted alkenyl group,  $\text{X}^-$  represents an anion, two or more of  $\text{R}_{y2}$  to  $\text{R}_{y5}$  in the general formula (2) optionally bond together to form a non-aromatic ring containing  $\text{A}_{y1}$ , and two or more of  $\text{R}_{y6}$  to  $\text{R}_{y11}$  in the general

formula (3) optionally bond together to form a ring.

2. The electrolyte composition according to claim 1, wherein said  $Q_{y1}$  is composed of atoms selected from the group consisting of carbon, hydrogen, nitrogen, oxygen and sulfur atoms.

3. The electrolyte composition according to claim 1, wherein said aromatic cation formed by said Q is an imidazolium cation or a pyridinium cation.

4. The electrolyte composition according to claim 1, wherein said electron-withdrawing group is selected from the group consisting of a sulfonyl group, a cyano group and a carbonyl group.

5. The electrolyte composition according to claim 1, wherein said nucleophilic groups are selected from the group consisting of  $-NH_2$ ,  $-SH$ ,  $-S^-$ ,  $-SO_2H$  and  $-SO_2^-$ .

6. A non-aqueous electrolyte secondary cell comprising the electrolyte composition recited in claim 1.